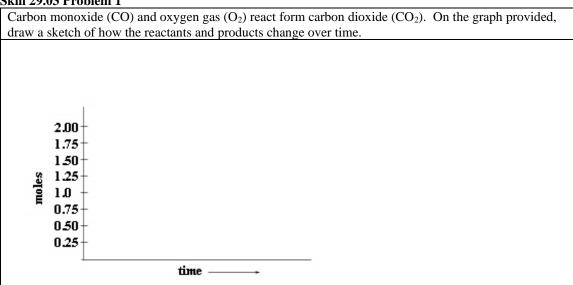
Carbon monoxide (CO) and oxygen gas (O₂) react form carbon dioxide (a) Write a balanced reaction for this process (b) Draw pictures to show the formation of carbon dioxide from it Skill 29.02 Problem 1 For the reaction represented by N₂(g) + 3H₂(g) → 2NH₃(g) At constant temperature and pressure, which of the following state (A) 6.022 x 10²³ molecules of nitrogen and 3 x (6.022 x 10²³) molecules of ammonia (B) 1 molecule of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 mole of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 mole of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 mole of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 mole of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 mole of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 mole of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 mole of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms of hydrogen react to yield 2 atoms (D) 1 molecules of nitrogen and 3 atoms (D) 1 molecules of hydrogen react to yield 2 atoms	
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(C) 1 atom of nitrogen and 3 atoms of hydrogen react to yield 2 atom) molecules of hydrogen react to yield 2
	ct to yield 2 molecules of ammonia
(D) 1	d 2 atoms of ammonia
(D) 1 mole of nitrogen and 3 moles of hydrogen react to yield 2 mole	d 2 moles of ammonia
(E) 28 grams of nitrogen and 6 grams of hydrogen react to yield 34 g	ield 34 grams of ammonia

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Name ______Period ____

Skill 29.03 Problem 1



Skill 29.04 Problem 1

For each of the following,

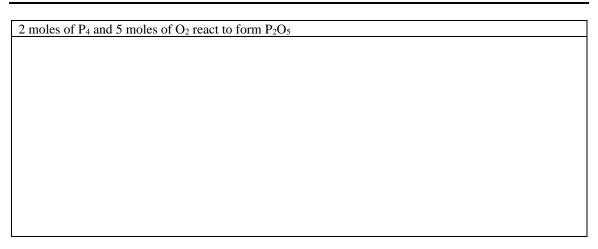
- (a) Write a balanced reaction for this process
- (b) Draw a picture of what happens when 2 moles of nitrogen gas react with 3 moles of hydrogen gas.
- (c) Identify the limiting and excess reactant

2 moles of nitrogen gas (N₂) and 3 moles of hydrogen gas (H₂) react to form ammonia (NH₃).

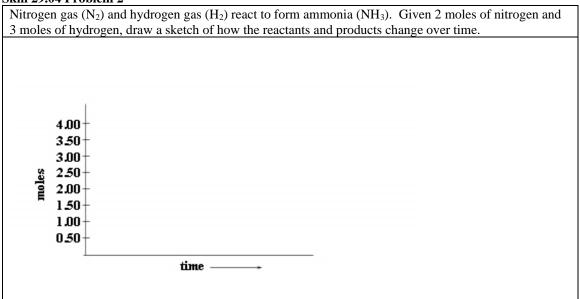
2 moles of NO and 2 moles of O2 react to form NO2

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Name ______ Period ____



Skill 29.04 Problem 2



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